

ABSTRACT OF THE DISCLOSURE

An actuator comprises a laminated structure having a vibration plate, a lower electrode, a piezoelectric element, and an upper electrode

5     laminated sequentially on a basic element, and then, at least the lower electrode of the two electrodes is a thin oxide film doped with La of single orientated crystal or monocrystal that contains Sr and Ti. Thus, it is made possible to materialize the micro

10    miniaturized actuator having a strong structure of lamination with high adhesion, which is capable of obtaining large displacement with sufficient durability without spoiling the piezo-electrostrictive property thereof even with the small

15    thickness of the piezoelectric element. With the micro miniaturized actuator thus structured, it is made possible to make a liquid discharge head more precisely.